

8-18-86  
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PERMIT TO CONSTRUCT

☒ New

Permit No. 86-251

☐ Renewal

☐ Modified

Encampment Water System Improvements  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Grand Encampment

P O Box 5

Encampment, WY 82325

to construct, install, or modify a municipal water distribution facility according to the procedures and conditions of the application No. 86-251. The facility is located in NE 1/4, NW 1/4, S1, T14N, R84W in the County of Carbon, in the State of Wyoming.

This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-252R  
\* CONDITIONS ON PERMIT \*

Teton Pines No. 1 Domestic Well  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

JH Racquet Club Ltd. Partnership

Star Route, Box 362A

Jackson, WY 83001

to construct, install, or modify a domestic well, pump and wellhouse

                                 facility according to the procedures and conditions of the  
application No. 86-252R. The facility is located in                                 

Sec. 11, T41N, R117W

   in the County of Teton,  
in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-



*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 15, 1986

Jorgensen Engineering  
P.O. Box 1142  
Jackson, WY 83001

Dear Mr. Ablondi:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for this proposed project is:

Facility Name: Teton Pines No. 1 Domestic Well  
DEQ/WQD Reference Number: 86-252  
Engineering Consultant: Jorgensen Engineering  
DEQ/WQD Review Engineer: Steven P Gerber  
Date of DEQ/WQD Review: 8-20-86

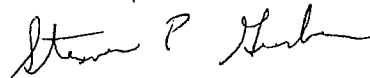
According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of this project and return this form to our office.

- \_\_\_\_\_ The application will not be resubmitted as the proposed project has been cancelled.
- \_\_\_\_\_ The application will be resubmitted within thirty (30) days.
- \_\_\_\_\_ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.
- \_\_\_\_\_ Other Remarks: \_\_\_\_\_
- \_\_\_\_\_

You are reminded that the construction, installation, or modification of any sewage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes, and is punishable with a fine not to exceed \$10,000 for each day of violation. Unless the Water Quality Division review engineer receives information concerning the status of this project within fifteen (15) days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Steven P. Gerber, P.E.  
Northwest District Supervisor

SG/jw

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 LINCOLN

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Teton Pines No. 1 Domestic Well

ENGINEER: Jorgensen Engineering  
P.O. Box 1142  
Jackson, WY 83001

OWNER: JH Racquet Club, Ltd. Partnership  
Star Route, Box 362A  
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 86-252

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: August 20, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Provide flow data to demonstrate that the source will provide a combined capacity that will equal or exceed the design maximum daily demand for both Teton Pines and the Aspens. A minimum of 2 wells, or 1 well and finished water storage equal to twice the maximum daily demand shall be provided. Where 2 wells are provided, the sources shall be capable of equalling or exceeding the design average daily demand with the largest producing well out of service.

2. Show capacity to provide fire flows and ability to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow. The normal working pressure in the distribution system shall not be less than 35 psi. When fire protection is to be provided, the system design shall be such that fire flows can be served.

3. The well must be disinfected after construction. Provide specifications which controlled the disinfection of the well.

4. Provide yield and drawdown test results. Provide specifications for the test methods. The test pump capacity must be 1.5 times the design rate. The test is to provide for continuous pumping for at least 24 hours or until stabilized drawdown has continued for at least 6 hours.

5. Plumbness and alignment is to be tested in accordance with AWWA A-100. Provide specifications to which these tests were performed.

6. If a sand or gravel aquifer is overlaid only by permeable soils, the permanent casing and grout shall extend to at least 20 feet below the ground elevation.

7. Provide specifications of casing pipe utilized to insure it conforms to AWWA A-100.

8. Compute entrance velocity of water into the well through the screen to insure a velocity of .1 fps is not exceeded.

9. Provide specifications for cement grout seal. Casing shall be surrounded by a minimum of 2 inches of grout.

10. Provide specifications for well development.

11. Where a well house is constructed, the floor surface shall be at least 6 inches above the final ground elevation and shall slope away from the casing at a slope of  $\frac{1}{2}$  inch per foot.

12. Provisions shall be made for venting the well casing to atmosphere. The vent shall terminate in a downturned position, at or above the top of the pitless unit in a minimum  $1\frac{1}{2}$  inch diameter opening covered with a 24 mesh corrosion-resistant screen.

13. An air line used for level measurement shall be provided.

14. Provide specifications for chlorination equipment. Provide computations to show that the chlorinator has capacity to add on the maximum day a minimum 5 mg/l disinfection dose. The equipment shall be of such design that it will operate accurately over the desired feeding range. The maximum withdrawal rate of gaseous chlorine shall be limited to 40 lbs/day unless chlorine evaporators are employed. Will chlorinator be used to chlorinate fire protection well or will the fire protection well have its own chlorinator?

15. Gauges shall be provided for chlorine solution pressure and chlorine gas pressure.

16. Provide specifications for chlorinator piping.

17. Respiratory protection equipment, meeting the requirements of the National Institute of Occupational Safety and Health, shall be available and shall be stored at a convenient location, but not inside any room where chlorine is used or stored. The units shall use compressed air, have at least a 30 minute capacity, and be compatible with or exactly the same as units used by the fire department responsible for the plant.

18. Identify how much chlorine will be stored on site. The plans indicate 8 bottles or 1200 lbs of chlorine. Where plants store more than 1000 lbs of chlorine, continuous electronic chlorine leak detection equipment shall be provided.

19. Repair kits approved by the Chlorine Institute shall be provided.

20. Specify door to chlorine room to be equipped with panic hardware.

21. Floor drains shall not be connected to other external drainage systems. The gravel drain provides a connection between the chlorine room and the flow meter vault. Chlorine gas could easily accumulate in the vault.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

SG/jw

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PERMIT TO CONSTRUCT

☐ New  
☐ Renewal  
☒ Modified

Permit No. 86-253R

KAYCEE SEWER SYSTEM IMPROVEMENTS  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Kaycee

P.O. Box 265

Kaycee, Wyoming 82639

to construct, install, or modify a sewage collection system facility according to the procedures and conditions of the application No. 86-253R. The facility is located in Sections 1, 6 and 12, T.43N., R.82W., in the County of Johnson, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

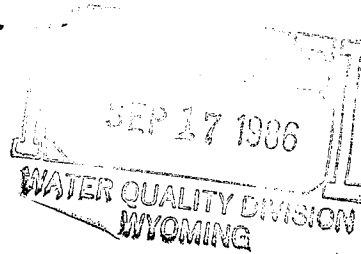
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.



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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801



PROJECT: Kaycee Sewer System Improvements

ARCHITECT OR ENGINEER: Bill Mentock  
Engineering, Inc.  
45 East Loucks, Suite 301  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION  
REFERENCE NUMBER:

86-253

REVIEWING ENGINEER:

Rich Ruyle

DATE OF REVIEW:

September 10, 1986

ACTION:

Not Authorized

COMMENTS:

- 1.) The invert elevations given for the central manhole in the southside sewer line no. 3 are not accurate. The invert out elevation is higher than the invert in elevation. Also the elevations do not agree with those given in the profile in the lower left corner of sheet 8.
- 2.) The drop manholes on sheets 6 and 7 should be shown on the plan view.

## PERMIT TO CONSTRUCT

17 New

Permit No. 86-254R

Renewal

Ref. No. 86-81R

/XX/ Modified

Madison WWTP Piping Modification  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

# Yellowstone National Park

P.O. Box 168

Yellowstone National Park, WY 82190

to construct, install, or modify a piping at the percolation ponds

\_\_\_\_\_ facility according to the procedures and conditions of the  
application No. 86-254R . The facility is located in \_\_\_\_\_

# Yellowstone National Park

\_\_\_\_\_ in the County of Yellowstone Park,  
in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

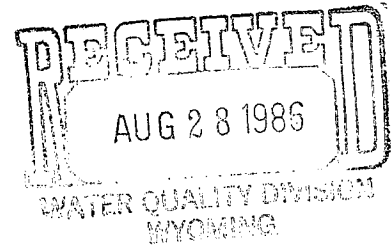
Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144



PROJECT: Madison Wastewater Treatment Plant-  
Percolation Pond Piping Modification

ENGINEER: Richard Engle  
P.O. Box 168  
Yellowstone National Park, WY 82190

OWNER: Yellowstone National Park  
P.O. Box 168  
Yellowstone National Park, WY 82190

WATER QUALITY DIVISION REFERENCE NUMBER: 86-254

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: August 21, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The application form must be signed before a permit can be issued.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

SG/jw

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PERMIT TO CONSTRUCT

☐ New  
☐ Renewal  
☒ Modified

Permit No. 86-255  
Ref. No. 84-457RRR  
See Special Conditions

Star Valley Ranch Water System  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Leisure Valley Inc

P O Box 127

Thayne, WY 83127

to construct, install, or modify a water distribution system to serve Star Valley Ranch Plats 4, 11, and 22 facility according to the procedures and conditions of the application No. 84-457RRR. The facility is located in Section 1, T43N, R119W and Section 30 and 31, T35N, R118W in the County of Lincoln, in the State of Wyoming.

This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 11, 1986

CERTIFIED

Leisure Valley, Inc  
P O Box 127  
Thayne, WY 83127

Star Valley Ranch Homeowners Association  
P O Box 159  
Thayne, WY 83127

RE: Star Valley Ranch water supply and distribution system, Lincoln County

Dear Gentlemen:

The Star Valley Ranch (SVR) development was started about 1969. Numerous phases and modifications have been added to the water system master plan since that time. For the past several years, the Department of Environmental Quality, Water Quality Division (DEQ/WQD) has been receiving complaints about the integrity and performance of the water system. Each round of complaints seems to generate a few more improvements to the existing water system but the overall problems of water outages and inadequate pressures have continued.

On June 18, 1986, Jack Bedessem of this department conducted another investigation and inspection of the existing SVR water system. During the inspection, several problem areas were identified which need to be addressed. The following comments summarize the problems which must be resolved.

1. Numerous unexpected water outages and inadequate pressures have been documented at various residences. The cause of the water supply deficiencies appears to be due to leaks, repairs, and improper operation of the domestic water system. The original water system was constructed using thin wall steel pipe. This old pipe transmits water to the new plats which have been designed and permitted in conformance with applicable Water Quality Rules and Regulations. Regardless of the age, snow cover, or high pressures, it is obvious that this older distribution system experiences an abnormally high number of problems (leaks). The continuous occurrence of leaks and repairs creates a public health threat and inconvenience to the users. The manner in which the leaks have been repaired has also been a concern of the complainants. Band-aids (rubber inner tubes/hose clamps) and bolts are not an acceptable method for repairing leaks to a domestic water system.

It is recommended that the sections of pipe which are plagued with problems be replaced as soon as possible. Since these older sections of pipe transmit water to future developments, no permits for future plat development (after plats 4, 11, and 22) will be issued until the problem areas have been properly recon-

structed. Please submit a compliance schedule by October 1, 1986 which will provide for upgrading the problem sections prior to October 1, 1987.

2. Star Valley Ranch recently submitted an application for permit to construct WQD Ref. No. 86-191 to construct a 0.4 MG storage tank on the Green Canyon supply. If the Prater Canyon supply was out of service, the elevation of the proposed tank was such that it would not provide water to all areas of the development. On July 25, 1986, Charles V. King submitted a scheme to use the head developed in the Green Canyon supply line to provide water to the higher lots of the Prater Canyon system. The proposed scheme will require a permit to construct and appears feasible. Refer to review letter WQD Ref. No. 86-243 dated July 28, 1986. Since both of these permits cover system features which address the existing problems, we intend to process permits as soon as the application is complete.
3. Several of the valve boxes which were inspected, maintained a water level which was apparently due to leaks and ground/surface water infiltration. The potential for stagnant water to be drawn back into distribution system creates a serious public health threat. Water Quality Rules and Regulations require that the valve boxes have a provision for drainage. Where drainage cannot be provided, a sump for a permanent or portable pump shall be provided. The valve boxes must be upgraded to provide adequate exclusion, drainage or evacuation of stagnant water. Please submit a compliance schedule by October 1, 1986, which will provide for upgrading the valve boxes prior to October 1, 1987.
4. The water system "as-built" plans prepared by King dated October 1984, indicate that the water line serving Oak Drive (Plat 6) is 6 inch diameter. Information provided to this department indicates that there are two lines serving Oak Drive, a 4 inch and a 2 inch. The "as-built" plans also indicate a number of other lines and appurtenances which were to be added and replaced to conform with the applicable construction permits. Provide documentation that these modifications have been completed or a compliance schedule indicating when they will be completed. This documentation should be provided by October 1, 1986. Construction not in accordance with the terms and conditions of the permit is a violation of the Wyoming Environmental Quality Act.
5. Past inspections and investigations by the DEQ/WQD, which were the result of citizen complaints, resulted in the conclusion that construction has perpetually been completed in nonaccordance with authorized plans and specifications. To ensure that future construction is performed in accordance with the terms and conditions of the permit to construct, permit WQD Ref. No. 84-457RRR (Plats 4, 11, and 22) is hereby modified per Water Quality Rules and Regulations, Chapter III, Section 13(a)(5). The modified permit, which is enclosed, contains the condition that all construction will be inspected and certified by a registered Wyoming Professional Engineer or representative inspector. The certification shall consist of a report submitted to this department which verifies that construction (materials, bedding, testing and disinfection) was completed on each segment in accordance with the terms and conditions of the authorized plans and specifications.

The modified permit shall become final within 20 days of the receipt of such notice unless the permittee requests a hearing before the Environmental Quality Council. Such a request for hearing shall be made in writing to the administrator of the Water Quality Division and shall state the grounds for the request.


Any hearing held shall be emulated pursuant to the regulations of the Department of Environmental Quality.

6. Documentation provided to this department indicates that some of the water supply deficiencies were possibly caused by inadequate water supply (Prater Canyon). It was the understanding of this department that flow meters would be installed on both sources and monitored routinely. Inspection revealed that the flow meter on Prater Canyon supply had been removed and no records were available for any monitoring. On July 9, 1986, this department received an application for permit to construct WQD Ref. No. 86-244 for permanent flow metering stations on both Prater and Green Canyon supplies. The cover letter indicated that these flow metering stations may not be constructed. As per the July 25, 1986 review letter, this department will require that the permanent flow metering stations be constructed on both supplies by December 31, 1986. Routine flow monitoring must be performed to substantiate operation between domestic and irrigation demands and future development.
7. The water distribution systems serving SVR development can be extremely difficult to operate because of the seasonal flow variation, high-low pressure zones, domestic-irrigation water demands, etc. Water Quality Rules and Regulations, Chapter V, Section 1 states that no person shall operate a public water treatment plant or water distribution system unless appropriately certified. DEQ records indicate that there is no certified operator for the SVR public water supply system. Please complete the enclosed operator designation/facility configuration form and return to this office by October 1, 1986. This form will be used to establish your certification requirements and a schedule of compliance.

By October 1, 1986, please submit a detailed response which addresses your intent to resolve each of the above mentioned concerns and a schedule of interim steps to achieve the compliance deadlines in this letter. The response should be submitted to Jack Bedessem, DEQ/Water Quality Division, 210 Lincoln Street, Lander, WY 82520.

If you have any questions, contact Jack Bedessem or Bill Locke at 307-332-3144.

Sincerely,

  
William L. Garland, PE  
Administrator

WLG/LR/JB/pjb  
Enclosures

cc: Jack Bedessem, WQD, Lander  
Charles King, 925 E Executive Park Dr, Suite A, Salt Lake City, UT 84117  
Rusty Bonser, Lincoln County Planner, P O Box 468, Kemmerer, WY 83101

8-28

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 21, 1986

CERTIFIED

Mr. Richard D. Goddard  
Exxon Company, U.S.A.  
P.O. Box 98  
Frontier, WY 83121-0098

RE: Application for permit to apply McGinnis Evaporation Pond fluids to roads within the LaBarge project, DEQ/WQD Ref.No. 86-256

Dear Mr. Goddard:

This office has reviewed your permit application to apply McGinnis Evaporation Pond fluids to roads within the LaBarge project. The application for this permit is hereby denied. The denial is based upon the following response:

1. The project is not consistent with the state policy, as contained in Chapter VIII, Wyoming Water Quality Rules and Regulations, to eliminate the discharge of salt within the Colorado River Basin whenever it is economically and technologically practicable to do so.
2. The McGinnis Evaporation Pond was permitted as a total containment non-discharging facility in accordance with permits 85-449 and 84-387RR. The road application permits issued by this office are based upon a temporary, one-time application when a more suitable method of disposal is not available.
3. The project is not consistent with policies of the approved Final Management Plan, Clean Water Reprot for Southwestern Wyoming.

If you desire, you may request a hearing before the Environmental Quality Council to appeal this decision. A request for a hearing must be made in writing within 60 days of the receipt of notification of the denial to the Director, Department of Environmental Quality and shall state the grounds for the request. Any hearing shall be conducted pursuant to the regulations of the Department of Environmental Quality.

Sincerely,

A handwritten signature in cursive script, reading "William L. Garland".

William L. Garland  
Administrator

WLG/LR/nc

cc: Chris Butler, BLM, Rock Springs  
Jack Bedessem, DEQ/WQD, Lander  
E. J. Fanning, DEQ/WQD, Cheyenne



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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-257  
See Special Condition

Guernsey Airport  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyoming Army Guard

c/o Major Foote

5500 Bishop Boulevard

Cheyenne, WY 82001

to construct, install, or modify a commercial subsurface wastewater treatment & disposal facility according to the procedures and conditions of the application No. 86-257. The facility is located in SW 1/4, S36, R27N, R66W in the County of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.



THE STATE OF WYOMING

9-72  
ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: File Rocky Mountain 1 Underground Coal Gasification Test Stearns Catalytic, DEQ/WQD Ref. No. 86-258

FROM: Phil Pucel *Phil*

DATE: September 18, 1986

SUBJECT: In-Situ Research and Development Testing License Application

Introduction

The application is not complete, but review comments are being provided to aid the applicant in gathering supplemental information and making necessary changes in a timely manner.

Comments

- The dip shown in Fig D-6-3 appears to be inconsistent with the geologic description on page D-5-14 which says that "rock units .... dip to the northeast."
- Page D-6-17. The eight outer group wells should be analyzed for an extended list of organic compounds, PNA's and volatiles.
- Page D-6-24, wells TW-7, TW-8 and TW-9 are discussed, but they are not shown on Fig D-6-4 (page D-6-19). Apparently, these wells have been given different i.d. numbers as follows: TW-7/EMW-7, TW-8/EMW-6 and TW-9/EMW-9. The text would be clearer if the dual designation were used or if the designations in the text corresponded to those on Fig D-6-4.
- Page C-45
  - . What is the lithostatic pressure in the reactor cavity?
  - . Pressures above the lithostatic pressure may be required during reverse combustion linking. What is the maximum pressure anticipated?
  - . What is the duration of the use of higher pressures?
  - . What is the potential for fracturing due to the use of these higher pressures?

- Page C-53. Water used for flushing the reactor cavities will be sampled and analyzed for contamination by pyrolysis products and ash leachate. These analyses will be used to determine appropriate restoration activities. Are the proposed acceptable levels of residual contaminants equal to background levels?
- Page C-55. The wells being used for vertical excursion monitoring are placed above, below and proximate to the test area. However, they are not generally located downgradient of the test area in their respective aquifers under undisturbed conditions. Are these wells intended to be used primarily for monitoring changes in static water levels and for detecting water quality changes during the period when gradients are altered?

The coal aquifer is being subjected to a much more rigorous monitoring scheme than the adjacent aquifers. However, contaminants may be more mobile in the adjacent aquifers due to higher permeabilities and less absorptive capacity. Once contaminants are introduced to adjacent aquifers, the proposed monitoring network which provides relatively little coverage, has little chance of detecting contaminant migration.

If vapor diffusion proves to be the most important vehicle for organic contaminant migration, will this occur primarily via fractures, rubbleized zones or along vertical and directional drill holes? Can the proposed monitoring network detect these excursions?

- Page C-58. What information is being used to determine the depth of the open hole interval for EMW-6? Why is the open hole interval +70 feet? Was this length of open hole chosen based upon low yields?
- Page C-59. Similar concerns exist for EMW-2 and EMW-8 as noted for EMW-6.
- Page C-60. Again, similar questions apply to EMW-10 as raised for the other overlying and underlying monitor wells.
- Page C-62. The compliance suite should include the Limited Suite, PNA's and volatiles.
- Page C-65. The Ground Water Sampling Record should include a record of filtering, number and types of bottles filled, preservation techniques used, and miscellaneous observations.
- Sampling protocol should be clearly defined.
- A laboratory QA/QC program should be presented.
- Reporting procedures should state that excess reactor pressures will be reported within 24 hours of occurrence. Immediate steps to correct the situation will be taken. In 30 days, a written report will be due explaining the occurrence and the remedial measures.
- Well plugging and abandonment notification and procedures are subject to WQD Rules and Regulations, Chapter XI.
- Any domestic wastewater needs to be properly treated and disposed. A WQD permit to construct treatment facilities is required.

- Process water needs to be treated and disposed. Again a WQD permit to construct the treatment facilities including holding tanks and ponds is required.
- Any sediment control facilities require a WQD permit to construct except for ASCM's.
- Surface discharges require an NPDES permit.

PP/nc

cc: Susan Hogg, LQD

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PERMIT TO CONSTRUCT

☐ New  
☐ Renewal  
☒ Modified

Permit No. 86-259RRRRR

Green Canyon Reservoir  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Leisure Valley, Inc.

P.O. Box 127

Thayne, WY 83127

to construct, install, or modify a 400,000 gallon concrete water storage tank

                                 facility according to the procedures and conditions of the  
application No. 86-259RRRRR. The facility is located in                                 

Sec. 30, T35N, R118W

   in the County of Lincoln,  
in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 LINCOLN

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Green Canyon Reservoir

ENGINEER: Charles V. King  
925 E. Executive Park Dr.  
Salt Lake City, UT 84117

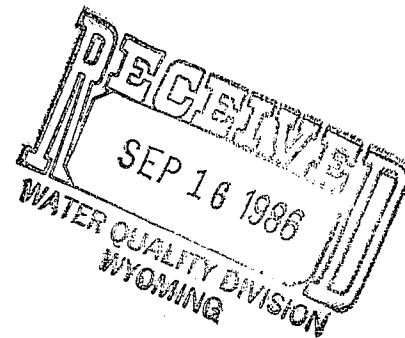
OWNER: Leisure Valley, Inc.  
P.O. Box 127  
Thayne, WY 83127

WATER QUALITY DIVISION REFERENCE NUMBER: 86-259R

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: September 12, 1986

ACTION: Not authorized.



COMMENTS:

A secondary review of the above referenced plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. I believe you inadvertently did not respond to item number 8 of my first review. Was a subsurface soils investigation performed at the tank site to support the foundation design? Please provide documentation.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Green Canyon Reservoir

ENGINEER: Charles V. King  
925 E. Executive Park Dr.  
Salt Lake City, UT 84117

OWNER: Leisure Valley, Inc.  
P.O. Box 127  
Thayne, WY 83127

WATER QUALITY DIVISION REFERENCE NUMBER: 86-259

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: August 15, 1986

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above referenced plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. The plans call for a 2" concrete cap on the double tee beam roof. I would suggest that concrete for this cap be specified with pea gravel in lieu of 3/4" minus gravel.
2. With the roof beams structurally tied to the walls of the tank, I have some concern as to the results of expansion/contraction of the structure. Has this been addressed in the structural analysis?
3. Have the double tee beams been specified to handle the live load of workers and equipment installing the concrete cap?
4. I don't believe the walls are included in the bid schedule.
5. All connection piping must be pressure tested for leakage, disinfected and flushed per Section 14, Chapter XII of the Water Quality Rules and Regulations.
6. The tank must be disinfected and flushed in accordance with AWWA D105.
7. Where does the overflow/drain line terminate? Are there provisions allowed for in the design to prevent soil erosion where this line is discharging?

8. Was a subsurface soils investigation performed to support the foundation design? Please provide documentation.

9. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw



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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-261RR

Black-Footed Ferret Captive Breeding Facility  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Jon Ogden

Wyoming Game & Fish Department

5400 Bishop Blvd.

Cheyenne, WY 82002

to construct, install, or modify a commercial subsurface wastewater treatment and disposal facility facility according to the procedures and conditions of the application No. 86-261RR. The facility is located in SW1/4 NE1/4 Section 29, T21N, R71W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Black-Footed Ferret Captive Breeding Facility

ARCHITECT OR ENGINEER: Henry Therkildsen & Associates  
259 South Center #208, Casper, WY 82601

APPLICANT: Wyoming Game and Fish Department

WATER QUALITY DIVISION REFERENCE NUMBER: 86-261

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor

DATE OF REVIEW: August 13, 1986

*TS Norman*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application form (enclosed) was not submitted.
2. Three copies of the plans and specs are required.
3. The septic tank must have both the inlet and outlet devices accessible without entering the septic tank.
4. The septic tank must have a cleanout which extends to the surface and be capped.
5. Specifications, Section 15210.c.1.a. DEQ does not have jurisdiction over the water well as it is not classified as a public water supply.
6. More information is required on the depth to the seasonal high groundwater level. The level of Sybille Creek does not appear to be much lower than the facility and would suggest a high groundwater table. Also there was no date as to when the previous test was performed as to indicate a seasonal variation.

pjb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Black-Footed Ferret Captive Breeding Facility

ARCHITECT OR ENGINEER: Harry Patterson, Patterson, Weber & Associates  
437 South Spruce St, Casper, WY 82601

APPLICANT: Wyoming Game & Fish, Jon Odgen-Chief Engineer  
5400 Bishop Blvd, Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 86-261R

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor  
*TS Norman*

DATE OF REVIEW: August 29, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Sufficient information still has not been submitted on the depth to the seasonal high groundwater table. The bottom of the drainfield is at elevation 94'-4". The regulations require a four foot separation from the bottom of the drainfield to the seasonal high groundwater table. Since Sybille Creek is at elevation 90-91', the proposed system appears inadequate.

Since this is not the time of year to measure the seasonal high groundwater table, a backhoe cut will be necessary to allow a trained soils person to determine the seasonal high groundwater table by observing the soil.

pjb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Seminole Mine #1, Pond B-1

ARCHITECT OR ENGINEER: James Felber  
Arch Mineral Corporation

APPLICANT: Arch Mineral Corporation, Western Division  
P O Box 460, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 86-262

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor

DATE OF REVIEW: August 18, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Three copies of the plans are required.
2. Are there any definable inlet ditches or channels? These need to be identified and protected.
3. Where is the outlet, should a discharge occur? The outlet channel must also be protected from erosion. Could you also provide some contours for the outlet channels.
4. A staff gauge needs to be installed which identifies the sediment storage, dead pool level, and high water level. What are these respective elevations?
5. How will the pond be dewatered?

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PERMIT TO CONSTRUCT

☒ New

Permit No. 86-262R

☐ Renewal

☐ Modified

Seminole Mine #1, Pond 8-1  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Arch Mineral Corp., Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond #8-1 facility according to the procedures and conditions of the application No. 86-262R. The facility is located in NE, Section 8, T22N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-263

Saratoga Lake Vault Toilet Buildings  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Saratoga Parks & Recreation

Attn: Dave Hayes

P O Box 486

Saratoga, WY 82331

to construct, install, or modify a vaulted toilet buildings facility according to the procedures and conditions of the application No. 86-263. The facility is located in S7, T17N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Saratoga Lake Vault Toilet Buildings

ARCHITECT OR ENGINEER:

APPLICANT: Town of Saratoga  
P O Box 486, Saratoga, WY 82331

WATER QUALITY DIVISION REFERENCE NUMBER: 86-263

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor

DATE OF REVIEW: August 13, 1986 *TS Norman*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans must have the seal/signature of a Wyoming registered professional engineer.
2. The vault must be a minimum of 4.5 feet deep.
3. A clean-out manhole must be located outside of the outhouse building and be equipped with a tight fitting cover of at least 20-inches.

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PERMIT TO CONSTRUCT

☒ New

Permit No. 86-264R

☐ Renewal

☐ Modified

Well No. 22116 Holding Tanks

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Doyle F. Huckaby

Fossil Butte Motel

Kemmerer, WY 83101

to construct, install, or modify a temporary holding tanks for sanitary sewage from  
an oil well drilling site

facility according to the procedures and conditions of the  
application No. 86-264R. The facility is located in

Sec. 25, T22N, R116W

in the County of Lincoln,

in the State of Wyoming. This permit shall be effective for a period of two (2)

years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

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PERMIT TO CONSTRUCT

☐ New  
☐ Renewal  
☒ Modified

Permit No. 86-265RR

Sage Industrial Park Interceptor  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Gary Ellingford  
Jay-Gee Brothers  
P.O. Box 173

Evanston, WY 82930

to construct, install, or modify a 8" diameter sewer interceptor and 6" diameter  
service connection to the Sage Industrial Park

facility according to the procedures and conditions of the  
application No. 86-265RR. The facility is located in

Sec. 15/22, T15N, R120W

in the County of Uinta,  
in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

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Permit No. 86-266R

\*See conditions on back

Veterans Administration Hospital Water Treatment Plant  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

V.A. Hospital

Fort Road

Sheridan, WY 82801

to construct, install, or modify a water treatment plant and associated piping

\_\_\_\_\_ facility according to the procedures and conditions of the

application No. 86-266R. The facility is located in

SW SW Sec. 20, T.56N., R.84W

in the County of Sheridan

in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

Water Quality Division  
Groundwater Section  
Permit Application Review

Plans returned  
to Sh  
10-23-86

Application Number

86-266

Date Submitted For Review

10-17-86

Name and Location of Facility

V. A. Hospital  
Sheridan, W.Y.

I have reviewed the plans and specifications with regard to all aspects of ground-water quality and find the following:



No Comment. The submittal is consistent with current ground-water protection procedures and requirements.

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Comments attached.

Signed

*Charles E. Bishop*

Title

Engineering Director

Date

10-22-86

Approved

10-23-86

(Date)

*[Signature]*

(Signed)

Groundwater Control Supervisor

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801

PROJECT: V. A. Hospital Water Treatment Plant

ARCHITECT OR ENGINEER: Roger Reich  
Engineering, Inc.  
45 East Loucks, Suite 301  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION  
REFERENCE NUMBER:

86-266

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: October 9, 1986

ACTION: Not Authorized

COMMENTS:

1.) Will the existing concrete reservoir be used for presedimentation?

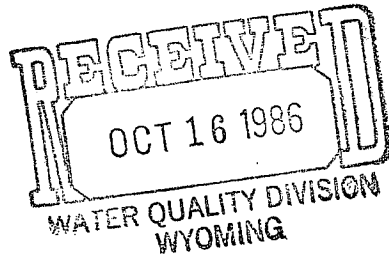
2.) The maximum allowable monthly average turbidity level for raw water being treated by diatomaceous earth filters is 25 TU. Please include the source of the raw water turbidity range listed in 11-A, page 2 of Specification No. 105. What is the maximum turbidity that has been recorded?

The maximum allowable monthly average level for raw water fecal coliform is 100 mpn/100 ml. What records are available in support of this number?

3.) Provide justification for the pressure Filter Treatment System being capable of treating turbidities of "50 TU for intermittent periods" without pretreatment.

4.) Is a high effluent turbidity alarm provided?

5.) Provide the design basis for the treatment plant capacity. The capacity must meet the maximum daily demand including filter backwash quantities. Pumping and finished water storage must provide the fire demand plus the maximum daily demand, or the maximum hour demand, whichever is greater.



- 6.) Provide the design basis used for the sluice waste holding pond. Will this pond ever have to be cleaned out? If so, two cells should be provided.
- 7.) The method of sludge disposal must be approved by the Solid Waste Division.
- 8.) Provide the design basis (size) for the pressure tank. This tank is for in plant use only?
- 9.) Pressure testing of pipes (Specification p. 15400-18) must conform with AWWA standard C600, i.e., 1.5 times the working pressure for two hours.
- 10.) The splash pad dimensions on sheet 5 of the drawings are incorrect.
- 11.) Safety features that must be added to the chlorination system:
  - a.) Respiratory protection equipment meeting the requirements of NIOSH will be stored outside the chlorine room.
  - b.) Repair kits approved by the Chlorine Institute shall be provided for the gas cylinders.
- 12.) A two hour chlorine contact time is needed for surface waters. This cannot be supplied by the clearwell alone. Does the finished water enter a storage tank prior to being used?
- 13.) Chapter XII calls for a flow measuring device for raw water influent and clearwell effluent. Please address.
- 14.) The applicant is reminded that an O & M manual meeting the requirements of Section 16 of Chapter XII (Department of Environmental Quality, Water Quality Division, Rules and Regulations) must be submitted to and accepted by this office prior to start up of the plant.
- 15.) The applicant is also reminded that the facility will have to be run by a certified operator.

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PERMIT TO CONSTRUCT

☒ New

Permit No. 86-267R

☐ Renewal

☐ Modified

NEWCASTLE WATER STORAGE TANK AND CONNECTOR MAIN

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Newcastle

10 West Warwick

Newcastle, Wyoming 82701

to construct, install, or modify a water storage tank and connector main facility according to the procedures and conditions of the application No. 86-267R. The facility is located in Sections 29 and 32, T.45N., R.61W., in the County of Weston, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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PERMIT TO CONSTRUCT

[ ] New  
[ ] Renewal  
[X] Modified

Permit No. 86-268  
Reference No. 85-528R

U.S. Air Force Strategic Training Range Complex, Site IV  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

U.S. Army Corps of Engineers, Attention: MROED-E

67014 USPO & Courthouse

Omaha, Nebraska 68102-4978

to construct, install, or modify a sewage lagoon facility according to the procedures and conditions of the application No: 86-268. The facility is located in Section 33, T.57N., R.61W., in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.



EW  
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PERMIT TO CONSTRUCT

☒ New

Permit No. 86-269R

☐ Renewal

☐ Modified

Pioneer Park Elementary School  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cheyenne Board of Public Utilities

2100 Pioneer

Cheyenne, WY 82001

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 86-269R. The facility is located in NE1/4 Section 36, T14N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Pioneer Park Elementary School

ARCHITECT OR ENGINEER: John Parks  
McFall, Konkel & Kimball  
500 E. 18th Street  
Cheyenne, WY 82001

APPLICANT: Laramie County School District #1  
2810 House Avenue  
Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 86-269

REVIEWING ENGINEER: Thomas S. Norman, P.E., Southeast District Engineer Supervisor

DATE OF REVIEW: August 29, 1986 *TS Norman*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The project requires Cheyenne Board of Public Utilities approval prior to the Department of Environmental Quality authorization.
2. A slope or length was not provided for the sewer line.
3. What type of backflow prevention device is being installed on the hot water heating system.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-270

Cheyenne Board of Public Utilities  
Converse Avenue-Inner Drive 24" Water Main  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cheyenne Board of Public Utilities

P O Box 1469

Cheyenne, WY 82003-1469

to construct, install, or modify a municipal water distribution system facility according to the procedures and conditions of the application No. 86-270. The facility is located in S 21 & 28, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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Permit No. 86-271R

Modified

Georgia-Pacific Shop Building  
(Name of Facility)

Hanson-Kelly Construction, Inc.

1812 Monad Road

Billings, MT 59102

to construct, install, or modify a septic tank and leachfield system

\_\_\_\_\_ facility according to the procedures and conditions of the  
application No. 86-271R. The facility is located in \_\_\_\_\_

Sec. 28, T55N, R94W

\_\_\_\_\_ in the County of Big Horn,  
in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Georgia-Pacific Shop Building Sewer System

ENGINEER: Ben Riehl  
P.O. Box 50457  
Billings, MT 59105

OWNER: Hanson-Kelly Construction, Inc.  
1812 Monad Road  
Billings, MT 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 86-271

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: August 22, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. The plot plan is inadequate. Provide the following additional information:
  - a. Show the well and water line with dimensions to the septic tank and leachfield to demonstrate adequate separation.
  - b. Show the property lines with dimensions to the septic tank and leachfield to demonstrate adequate separation.
  - c. The separation distance between the septic tank and drain field is inadequate. A minimum distance of 10 feet is required.
  - d. Show location of roadways and parking lots. Absorption systems shall not be located beneath these compacted areas.
  - e. Include a site plan of where the facility is located.
2. Determine the depth from the ground surface to bedrock or impermeable soil and to the seasonally high groundwater table. Specify how the data was obtained. At least four feet is required between the bottom of the absorption system stone and the impermeable layer and seasonally high groundwater.
3. Indicate the natural ground slope. The slope cannot be steeper than 20%.
4. Specify on the plans the pipe specification and slopes at which the solid pipe will be laid. Pipe in and out of the septic tank must be ductile iron or schedule 40 pvc.

5. Submit standard septic tank drawing from manufacturer so compliance with regulations can be evaluated. Indicate on the drawing that six inch cleanouts will extend above grade.

6. Provide drain field rock specifications.

7. Although the drain field pipe may be sloped the bottom of the trench is to be level.

8. Define what type of water and quantity of water that will be emptying into the drain pit.

9. Complete the legal description on the application.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

SG/jw

THE STATE



OF WYOMING

ED HERCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 8, 1986

Lt. Randy Schober  
90 CSG/DEEV  
F.E. Warren AFB, WY 82005-5280

Dear Lt. Schober:

Enclosed are applications for permits to construct monitor wells #86-272 and #86-273. These applications are being returned in response to the letter of Mr. Jack B. Knudson, Deputy Base Civil Engineer, which requested that these applications be withdrawn.

Sincerely,

*AJ Mancini*

A. J. Mancini  
Groundwater Control Supervisor

AJM/nc



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 8, 1986

Lt. Randy Schober  
90 CSG/DEEV  
F.E. Warren AFB, WY 82005-5280

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A. J. Mancini  
Groundwater Control Supervisor

AJM/nc



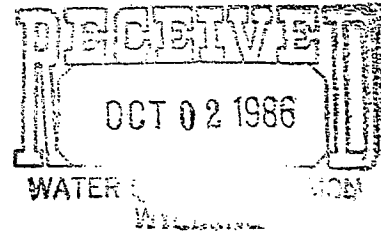


86-386

DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 90TH COMBAT SUPPORT GROUP (SAC)  
FRANCIS E. WARREN AIR FORCE BASE, WY 82005-5280

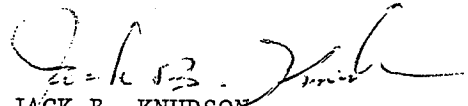
REPLY TO  
ATTN OF: 90 CSG/DEEV (Lt Schober, 2213)

SUBJECT: Revision of Groundwater Monitoring Well Permits



TO: Mr A. J. Mancini  
Wyoming Dept of Environmental  
Quality/Water Quality Division  
122 W. 25th St  
Cheyenne, WY 82002

1. Request that Groundwater Monitor Well Application Numbers 86-272 and 86-273 be formally withdrawn due to changes in well installation plans.
2. Attached is the required permit application appropriately revised to reflect the installation of one groundwater monitor well. Any questions may be directed to Mr William Metz or 2d Lt Randy Schober at extension 775-2213.

  
JACK B. KNUDSON  
Deputy Base Civil Engineer

1 Atch  
Permit Application  
Documents



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 26, 1986

Lt. Randy Schober  
90 CSG/DEEV  
F.E. Warren AFB, WY 82005-5280

RE: Groundwater Monitoring Well Permit Applications 86-272 and 86-273

Dear Lt. Schober:

Last August 14 we received two applications for permits to construct monitor wells as part of F. E. Warren's acid seepage pit cleanup program, submitted by Jack B. Knudson, Deputy Base Civil Engineer.

The applications have not been reviewed for permit issuance because I have been informed that F. E. Warren planned to withdraw these applications and submit a new application for one monitor well. Please confirm whether or not applications 86-272 and 86-273 are to be withdrawn.

On September 5, 1986 I received a letter from Colonel James W. Taylor, Base Civil Engineer; there was no attachment to the letter, nor has a copy of the attachment been delivered to this office. Should we have a copy of the attachment?

Sincerely,

*AJ Mancini*

A. J. Mancini  
Groundwater Control Supervisor

AJM/nc

8-28-86

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-274  
SEE CONDITIONS ATTACHED  
Ref.No. 82-577

B & B Reserve Pit #2  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

B & B Gravel and Construction

P.O. Box 105

Etna, WY 83118

to construct, install, or modify a drilling fluids and produced water commercial pit facility according to the procedures and conditions of the application No. 86-274. The facility is located in Section 35, T36N, R119W in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

This permit authorizes you to dispose of 810,390 gallons of drilling fluids and produced water on the surrounding 40 acres, a total liquid application of 0.75 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 86-274

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, 210 Lincoln Street, Lander, Wyoming 82520, phone number 332-3144, to arrange a field inspection prior to initiation of work. The District engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
5. The wastewater application will be documented by photographs showing the actual application in progress and closeups of the vegetation right after application.
6. Four temporary soil and vegetation sampling sites (1 per 10 acres) will be staked prior to application for comparison photos to be taken two days after the wastewater application is accomplished. Several grass, forb and shrub (if present) plant species should be marked (with ribbon) for the photos.

One 0-6" and 7-12" soil sample will be taken at each location. All the chemical parameters and the texture from #9(A)(2) on the one-time land application form will be run for all samples and compared with the background sample taken on August 6, 1986 by E. J. Fanning. The change in conductivity (Ce) in the surface samples is the parameter of particular interest.

7. If a significant (more than 0.10 inch) precipitation event does not occur within 2 days after the wastewater application, the site will be irrigated with water having a quality of 2,000 mg/l or less of total dissolved salts, to an approximate application of 0.60 inches or greater.
8. The completed wastewater analysis will become a permanent part of the permit file and will be used to calculate site metal loadings.
9. This permit is issued under the authority of section 5(b) of Part A of Chapter XI.

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PERMIT TO CONSTRUCT

Permit No. 86-275R

☒ New  
☐ Renewal  
☐ Modified

Consolidated Freightways Refueling Facility  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cheyenne Board of Public Utilities

P O Box 1469

Cheyenne, WY 82001

to construct, install, or modify an extension of water main and installation of two 10,000 gallon oil separators with surface discharge facility according to the procedures and conditions of the application No. 86-275R. The facility is located in S1, T13N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

[X] New  
[ ] Renewal  
[ ] Modified

Permit No. 86-276  
SEE CONDITIONS

GASAMAT OIL CORPORATION, SHERIDAN STATION, MONITORING WELLS  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Gasamat Oil Corporation  
999 18th Street  
Denver, Colorado 80202

to construct, install, or modify a groundwater monitoring wells facility according to the procedures and conditions of the application No. 86-276. The facility is located in Section 35, T.56N., R.84W., in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

☐ New  
☐ Renewal  
☒ Modified

Permit No. 86-277

Painter NRU/NGL Process Building Wastewater Disposal  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Amoco Production Company  
P.O. Box 829  
Evanston, WY 82930

to construct, install, or modify a septic tank leachfield to revise permit no.

85-522

                                 facility according to the procedures and conditions of the  
application No. 86-277. The facility is located in                                 

SE $\frac{1}{4}$ , Sec. 32, T16N, R119W

                                 in the County of Uinta,

in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

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PERMIT TO CONSTRUCT

☐ New  
☒ Renewal  
☐ Modified

Permit No. 86-278  
Ref. No. 84-012

SEE CONDITIONS ATTACHED TO THIS PERMIT

Salt Creek South Unit  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Terra Resources, Inc.

P.O. Box 2500

Casper, WY 82602

to construct, install, or modify a production waste oil road application facility according to the procedures and conditions of the application No. 84-012. The facility is located in Townships 39 & 40N, Ranges 78 & 79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.



This permit authorizes you to dispose of 12,600 gallons of production waste oil and wastewater on the surrounding roads as per attachment #2.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 86-278

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application.
3. Wastewater application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. Analysis of waste oil sludge from tank batteries A, B, C, Texas N and Staley A & D for the following parameters should be submitted on or about (received August 20, 1986):

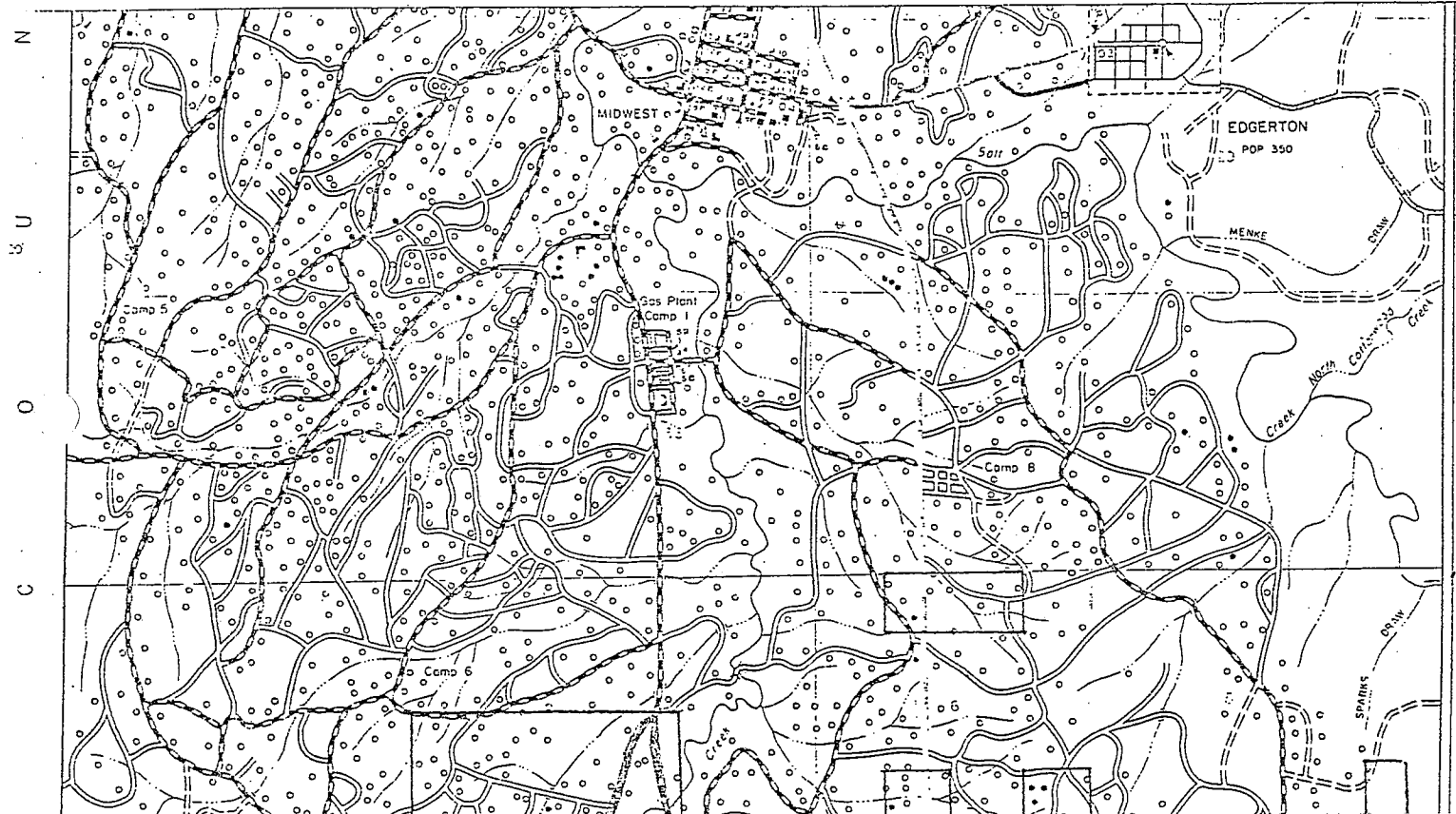
pH	Conductivity, mmhos/cm @ 25°C
Calcium	Iron
Magnesium	Molybdenum
Sodium	Manganese
Barium	Nickel
Boron	Lead
Aluminum	Silver
Copper	Mercury
Chromium	Vanadium
Zinc	

All results should be reported on a dry weight basis as ug/gram of solids.

5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, 2161 Coffeen Avenue, Sheridan, Wyoming 82801, phone number 672-6457, to arrange a field inspection prior to initiation of work. The District engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

is to be used as land application site

Leases owned by Terra Resources Inc.





*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 21, 1986

C T Stilwell  
ARCO Oil and Gas Company  
P O Box 1610  
Midland, TX 79702

Dear Mr. Stilwell:

Enclosed are statewide permits 86-279 and 86-280 for small wastewater facilities. These permits replace your permits 83-240R and 85-451. Please note these permits contain a condition requiring the notification of the appropriate county and Department of Environmental Quality Division district offices prior to the installation and abandonments of any facility authorized by these permits.

Sincerely,

A handwritten signature in cursive script that reads "Lawrence Robinson".

Lawrence Robinson  
Engineering Control Supervisor

LR/pjb  
Enclosures

cc: WQD Sheridan District Office  
WQD Lander District Office  
Delegated county programs

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PERMIT TO CONSTRUCT

☐ New  
☐ Renewal  
☒ Modified

Permit No. 86-279  
Ref. No. 83-240R  
See Special Conditions

ARCO Oil and Gas Company  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

ARCO Oil and Gas Company

Attn: C T Stilwell

P O Box 1610

Midland, TX 79702

to construct, install, or modify a sewage collection system and holding tank facility according to the procedures and conditions of the application No. 83-240R. The facility is located in Statewide in the County of Statewide, in the State of Wyoming.

This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

# AGENCIES RESPONSIBLE FOR SMALL WASTEWATER PERMITS

1. Albany County  
Albany County Planning Office  
405 Grand Avenue  
Laramie, WY 82070  
Phone: (307) 721-5188
2. Big Horn County  
DEQ/WQD District Supervisor  
Lander
3. Campbell County  
Campbell County Engineer  
500 South Gillette Avenue  
Gillette, WY 82716  
Phone: (307) 682-1970
4. Carbon County  
DEQ/WQD District Supervisor  
Cheyenne
5. Converse County  
Converse County Sanitarian  
County Health Department  
530 Oak  
Douglas, WY 82633  
Phone: (307) 358-2536
6. Crook County  
DEQ/WQD District Supervisor  
Sheridan
7. Fremont County  
Fremont County Planner  
Room 200, County Courthouse  
Lander, WY 82520  
Phone: (307) 332-5371
8. Goshen County  
Goshen County Sanitarian  
P.O. Box 1132  
County Courthouse  
Torrington, WY 82240  
Phone: (307) 532-5002
9. Hot Springs County  
Hot Springs County Planner  
County Courthouse  
Thermopolis, WY 82443  
Phone: (307) 864-2732
10. Johnson County  
Johnson County Sanitarian  
County Courthouse  
Buffalo, WY 82834  
Phone: (307) 684-7555
11. Laramie County  
DEQ/WQD District Supervisor  
Cheyenne
12. Lincoln County  
Office of Planning and Development  
P.O. Box 414  
Afton, WY 83110  
Phone: (307) 886-3825
13. Natrona County  
Environmental Health Division  
Natrona County Health Department  
1200 East 3rd  
Casper, WY 82601-2990  
Phone: (307) 235-9316
14. Niobrara County  
DEQ/WQD District Supervisor  
Sheridan
15. Park County  
Park County Planning Coordinator  
P.O. Box 160  
Cody, WY 82414  
Phone: (307) 587-2204
16. Platte County  
DEQ/WQD District Supervisor  
Cheyenne
17. Sheridan County  
Sheridan County Engineer  
P.O. Box 612  
Sheridan, WY 82801  
Phone: (307) 672-3426
18. Sublette County  
Sublette County Planner  
P.O. Box 506  
Pinedale, WY 82941  
Phone: (307) 367-4375
19. Sweetwater County  
Sweetwater County Sanitarian  
205 East Railroad Ave.  
Green River, WY 82935  
Phone: (307) 875-2611 Ext. 278
20. Teton County  
Teton County Sanitarian  
P.O. Box 1727  
Jackson, WY 83001  
Phone: (307) 733-3959

PERMIT TO CONSTRUCT

☐ New  
☐ Renewal  
☒ Modified

Permit No. 86-280  
Ref. No. 85-451  
See Special Conditions

ARCO Temporary Septic Tanks  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

ARCO Oil and Gas Company

Attn: C T Stilwell

P O Box 1610

Midland, TX 79702

to construct, install, or modify a collection line and wastewater disposal system to serve temporary trailers on drilling locations according to the procedures and conditions of the application No. 85-451. The facility is located in Statewide in the County of Statewide, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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Lander
3. Campbell County  
Campbell County Engineer  
500 South Gillette Avenue  
Gillette, WY 82716  
Phone: (307) 682-1970
4. Carbon County  
DEQ/WQD District Supervisor  
Cheyenne
5. Converse County  
Converse County Sanitarian  
County Health Department  
530 Oak  
Douglas, WY 82633  
Phone: (307) 358-2536
6. Crook County  
DEQ/WQD District Supervisor  
Sheridan
7. Fremont County  
Fremont County Planner  
Room 200, County Courthouse  
Lander, WY 82520  
Phone: (307) 332-5371
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Goshen County Sanitarian  
P.O. Box 1132  
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Torrington, WY 82240  
Phone: (307) 532-5002
9. Hot Springs County  
Hot Springs County Planner  
County Courthouse  
Thermopolis, WY 82443  
Phone: (307) 864-2732
10. Johnson County  
Johnson County Sanitarian  
County Courthouse  
Buffalo, WY 82834  
Phone: (307) 684-7555
11. Laramie County  
DEQ/WQD District Supervisor  
Cheyenne
12. Lincoln County  
Office of Planning and Development  
P.O. Box 414  
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13. Natrona County  
Environmental Health Division  
Natrona County Health Department  
1200 East 3rd  
Casper, WY 82601-2990  
Phone: (307) 235-9316
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Park County Planning Coordinator  
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16. Platte County  
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Cheyenne
17. Sheridan County  
Sheridan County Engineer  
P.O. Box 612  
Sheridan, WY 82801  
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Sublette County Planner  
P.O. Box 506  
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Phone: (307) 367-4375
19. Sweetwater County  
Sweetwater County Sanitarian  
205 East Railroad Ave.  
Green River, WY 82935  
Phone: (307) 875-2611 Ext. 278
20. Teton County  
Teton County Sanitarian  
P.O. Box 1727  
Jackson, WY 83001  
Phone: (307) 733-3959

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-281  
SEE SPECIAL CONDITIONS

Rainbow Valley Lodge  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Jo Ann Wolters

P O Box 698

Salmon, ID 83647

to construct, install, or modify a commercial subsurface wastewater treatment and disposal facility according to the procedures and conditions of the application No. NW 1/4, S34, T16N, R78W. The facility is located in 86-281 in the County of Albany, in the State of Wyoming. This permit shall be effective until October 11, 1986.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.



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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-282  
SEE SPECIAL CONDITIONS

Flying J - Monitor Well #1 & 2  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Vince Memmott

333 West Center Street

North Salt Lake City, UT 84054

to construct, install, or modify groundwater monitoring wells according to the procedures and conditions of the application No. 86-282. The facility is located in S20, SE1/4, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-283  
SEE SPECIAL CONDITIONS

Flying J - Monitor Well #18, 19, 20, 24 & 25  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Vince Memmott

333 West Center Street

North Salt Lake City, UT 84054

to construct, install, or modify groundwater monitoring wells according to the procedures and conditions of the application No. 86-283. The facility is located in S21, SW1/4, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-284  
SEE SPECIAL CONDITIONS

Flying J - Monitor Well #5 thru 17 & 21 thru 23  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Vince Memmott

333 West Center Street

North Salt Lake City, UT 84054

to construct, install, or modify groundwater monitoring wells according to the procedures and conditions of the application No. 86-284. The facility is located in S28, NW1/4, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-285  
SEE SPECIAL CONDITIONS

Flying J - Monitor Well #3 & 4  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Vince Memmott

333 West Center Street

North Salt Lake City, UT 84054

to construct, install, or modify groundwater monitoring wells according to the procedures and conditions of the application No. 86-285. The facility is located in S29, NE1/4, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-286  
SEE SPECIAL CONDITIONS

Flying J - Monitor Well #26, 27 & 28  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Vince Memmott

333 West Center Street

North Salt Lake City, UT 84054

to construct, install, or modify groundwater monitoring wells according to the procedures and conditions of the application No. 86-286. The facility is located in S36, SE1/4, T54N, R102W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-287  
SEE SPECIAL CONDITIONS

Flying J - Monitor Well #29, 30 & 31  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Vince Memmott

333 West Center Street

North Salt Lake City, UT 84054

to construct, install, or modify groundwater monitoring wells according to the procedures and conditions of the application No. 86-287. The facility is located in S1, NE1/4, T53N, R102W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-288  
SEE SPECIAL CONDITIONS

Church & Dwight Green River Plant Monitoring Wells  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Church & Dwight Company, Inc.

469 North Harrison Street

Princeton, NJ 08540

to construct, install, or modify nine monitoring wells to establish baseline data and for possible future monitoring according to the procedures and conditions of the application No. 86-288. The facility is located in S6, T18N, R109W; S1, T18N, R110W; S30, 31, T19N, R109W; S36, T19N, R110W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 4, 1986

Church & Dwight Inc.  
469 N. Harrison St.  
Princeton, NJ 08540

Re: Permit to Construct #86-288

Gentlemen:

Enclosed is a signed copy of the permit to construct nine monitor wells. If necessary, additional wells may be constructed to the specifications of the permit application. Once the wells have been constructed, please submit a completion report to the Water Quality Division. This report should detail the locations and final construction details of all the monitor wells.

Thank you for your attention to this matter.

Sincerely,

*Katherine J. Laudon*

Katherine J. Laudon  
Groundwater Engineering Evaluator

KJL/nc  
Enclosures



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PERMIT TO CONSTRUCT

[X] New  
[ ] Renewal  
[ ] Modified

Permit No. 86-289R

OLD STYLE PROCESSING SEPTIC SYSTEM  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Mr. William P. Bernard

310 Sherman Avenue

Sheridan, Wyoming 82801

to construct, install, or modify a septic system facility according to the procedures and conditions of the application No. 86-289R. The facility is located in Section 8, T.54N., R.83W., in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

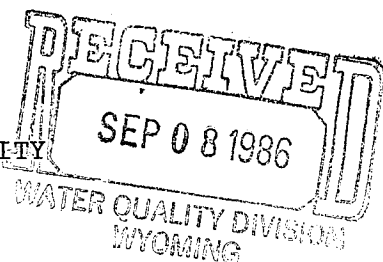
Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801



PROJECT: Old Style Processing Septic System

OWNER/APPLICANT: William P. Bernard  
310 Sherman Avenue  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION  
REFERENCE NUMBER: 86-289

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: September 5, 1986

ACTION: Not Authorized

COMMENTS:

Please provide a detail drawing of the grease trap so that we can ensure its proper design. I've been unable to reach you by phone to discuss this.



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 15, 1986

Mr. Gary J. Colaizzi  
Goodson & Associates, Inc.  
11949 West Colfax Avenue  
Lakewood, CO 80215

RE: Permit GPC ~~86-290~~ The Elmo-Peacock Mine Drill and Grout Project at  
Hanna, Carbon County, Wyoming

Dear Mr. Colaizzi:

Enclosed are two copies of permit GPC 86-290, authorization to commence injection of backfill material related to the Land Quality Division Abandoned Mine Lands Project 7A. Please note that you are to notify the Water Quality Division administrator or his representative 48 hours before injection is to start and shall provide written notification within 7 days after injection commences of the date and time of commencement (see Section C., Authorized Operations).

Also enclosed are three copies of Form GPC 7. A copy of the form must accompany any written report required by the permit.

Note Section I.12., Records and Reports. A written report shall be submitted to the Water Quality Division within 30 days following completion of the project.

Please contact this office if you have any questions concerning the permit or this letter.

Sincerely,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland  
Administrator

WLG/AJM/nc  
Enclosures

DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE OF WYOMING  
GROUNDWATER POLLUTION CONTROL PERMIT  
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS  
(Permit to Inject)

(X ) New

Permit Number:

( ) Modified

GPC 86-290

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

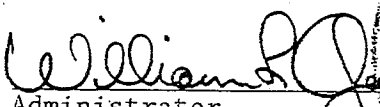
Goodson & Associates, Inc.  
Attn: Gary J. Colaizzi  
11949 West Colfax Avenue  
Lakewood, Colorado 80215

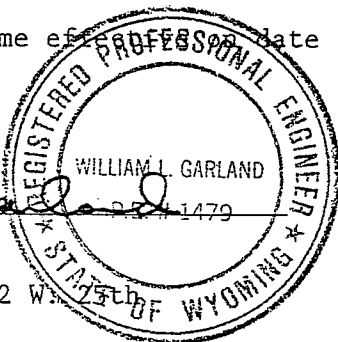
is authorized to operate

the Elmo-Peacock Mine Drill and Grout Project at Hanna, in the SW1/4  
NW1/4 Section 16, T22N, R81W, Carbon County

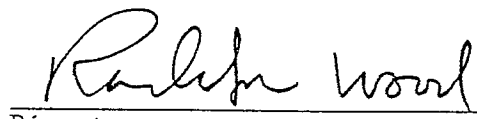
according to procedures and conditions of the application GPC 86-290 and requirements and other conditions of this permit.

This permit shall become effective Sept 15, 1986 date of issuance.

  
Administrator  
Water Quality Division  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002  
Phone: (307) 777-7781



Sept 15, 1986  
Date

  
Director  
Department of Environmental Quality  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002

9-15-86  
Date

A. Discharge (Injection) Zone and Area of Review

The injection zone is the void created by the Peacock Mine, developed in the No. 79 Coal Seam of the Eocene Hanna Formation, below 6800 feet elevation and underlying a portion of the Elmo townsite. The injection zone is at depths to 150 feet below the surface.

The area of review is that area which may be impacted by the grouting project and at a minimum within a quarter-mile radius of the project site.

B. Groundwater Classification

The injection zone is saturated with water having less than 10,000 mg/l TDS. Water in the void reportedly has 2640-4060 mg/l TDS, 1.08-5.56 mg/l NH<sub>3</sub>-N, and 1740-2500 mg/l SO<sub>4</sub>. High concentrations of iron and manganese are also reported; mercury is reported as less than 0.3 ug/l. This water is not considered suitable for domestic use, but may be suitable for livestock use depending on the actual concentration of mercury.

C. Authorized Operations

The permittee is authorized to inject grout, concrete and gravel, including type II cement, sand, ASTM C-618 flyash and culinary water, into mine voids of the Peacock Mine; typically at an average injection rate of 100-150 cubic yards per day. The maximum rate will not exceed 200 cubic yards of material per day.

Injection pressure is expected to be negligible. At direction of the engineer, injection may be performed at a pressure not to exceed 100 psi.

The injection procedure will consist of:

1. drill 4-inch borehole into the mine;
2. install a 2-inch i.d. injection tube;
3. connect the grout pump to the injection tube;
4. inject the cement and sand grout mixture into the mine, by gravity, until the hole rejects;
5. a fifth step may be added at the discretion of the engineer: apply pressure to ensure that all voids are filled.

It is estimated that a total of 48 holes will be drilled.

Permittee shall notify the administrator or his representative 48 hours before injection is to start and shall provide written notification within 7 days after injection commences of the date and time of commencement.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit.

This permit does not authorize the discharge of any wastes into the wells. No other use for or by the wells is authorized by this permit.

D. Proper Operation and Maintenance

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the Administrator.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls, including appropriate quality assurance procedures.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. Entry and Inspection

The permittee shall allow the Administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The name(s) of individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. Names of individuals who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

See Section G.

G. Requirements for Monitoring the Discharge

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

Monitoring will be conducted by observing pressure gauges at the surface. The grout pump system will be fitted with gauges at the pump outlet and injection point. Injection pressure will not exceed 100 psig.

H. Test Procedures

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter VIII, Section 7.

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the Administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

4. Monitoring results shall be reported at intervals specified elsewhere in the permit.
5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
  - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable Groundwater of the State.
  - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable Groundwaters of the State.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The Administrator may require the owner/operator to deliver the records to the Administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a Groundwater Pollution Control Permit has been issued by the Department for the proposed operation, and:
  - a. Well construction is complete and the permittee has submitted notice of completion of construction to the Administrator, and
  - b. The Administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the



Administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and

- c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the Administrator.

Item I.10 is not applicable to this permit.

- 11. Annual reports shall be submitted to the Administrator within 30 days following the anniversary date of the permit.
- 12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the Administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

A final report on this project shall be submitted to the Water Quality Division within 30 days following completion of this project. This report shall include:

- a. A tabulation of all injection (and monitoring, if any) holes completed, including:
  - (1) location map;
  - (2) complete driller's log of each borehole;
  - (3) abandonment procedures.
- b. Operating data
  - (1) kinds and amounts of backfill material used;
  - (2) pressure used, when and how much;
  - (3) any unanticipated conditions encountered and permittee's actions.

The report shall be accompanied by a completed Form GPC 7. Note the signatories requirement of Section Q of this permit.

#### J. Permit Actions

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:

- 1. Violation of the permit;
- 2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued.

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the Council.

This operation (permit) can be terminated by authority of the Administrator for one or more permit violations.

Public notice of the permit review and request for public comment will be made every 10 years by the Administrator.

Not applicable.

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

Not applicable.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the Administrator.

L. Abandonment

The permittee shall notify the Administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the Director and follow the procedures prescribed by the Director for plugging and abandonment or the discontinuance of related activities:

Notification to the administrator at least 180 days before well abandonment is not required for this project.

The Water Quality Division requires at a minimum that the injection zone be permanently isolated from overlying and underlying aquifers; that interaquifer communication be permanently prohibited; and that the wells be permanently secured against the injection or disposal of anything after abandonment.

All injection wells will be plugged and abandoned upon completion of the project according to provisions of Water Quality Division Rules and Regulations, Chapter XI, Part G. A final report documenting plugging and abandonment shall be submitted and may be submitted as part of the report required by Section I.12.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;
4. Furnish to the Administrator within a reasonable time, any information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the Administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

The permittee is required to maintain financial responsibility and resources in form approved by the Director, to close, plug and abandon the discharge operation in a manner prescribed by the Director.

Not applicable.

O. Special measures the Director finds necessary:

The operations authorized by this permit must commence within one year of permit issuance date, or the permit is invalid.

P. Special permit conditions:

Pollution or waste which migrates into an aquifer containing a usable groundwater of the State is a violation of the permit.

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

Q. Signatories Requirement

All reports required by this permit and other requested information shall be signed as follows:

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

For a municipality, State, Federal or other public agency -- by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the described principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the Administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Administrator prior to or together with any reports or information, to be signed by an authorized representative.

Any person signing a report or other requested information shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification or planned changes or anticipated noncompliance, does not stay any permit condition.

S. Permit Transfer

The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the Department Director.

T. Responsibilities

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

U. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

V. Severability

The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

norma

THE STATE



OF WYOMING

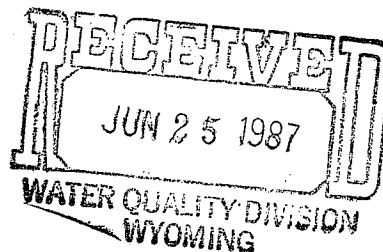


## Department of Environmental Quality

Air Quality Division  
(307) 672-6457

Water Quality Division  
(307) 672-6457

June 23, 1987



Mr. Dave Stout  
Wyoming Fuel Company  
P. O. Box 15596  
Lakewood, Colorado 80215

Dear Dave:

On June 11, 1987, a status letter was sent to you concerning a permit to construct, reference number 86-291, facility name Reservoir No. 1, Black Mountain Coal Mine. The application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the as-built approval process.

The project has not been permitted, and your application is being returned based on the assumption that alternative sediment control will be provided for this facility. If alternative measures are not implemented, the as-built approval process should be reinitiated. Thank you.

Sincerely,

*Susan Fields*

Susan Fields  
District Supervisor  
Water Quality Division

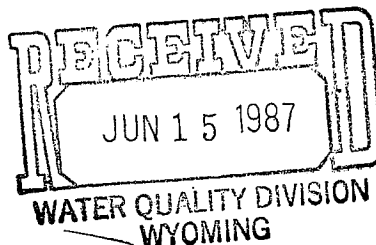
SF:jj

xc: Larry Robinson, DEQ, Cheyenne  
Beth Goodnough, LQD, Sheridan  
Norma Coulson, DEQ, Cheyenne  
File: Black Mountain Coal Mine



THE STATE

OF WYOMING



## Department of Environmental Quality

Air Quality Division  
(307) 672-6457

Water Quality Division  
(307) 672-6457

June 11, 1987

Mr. Dave Stout  
Wyoming Fuel Company  
P. O. Box 15596  
Lakewood, Colorado 80215

Dear Dave:

Our records indicate your application for an as-built approval has not been resubmitted to this office for review and authorization. The specific information for your proposed project is:

Facility Name:	Black Mountain Coal Mine Reservoir No. 1
DEQ-WQD Reference Number:	86-291
Engineering Consultant:	Western Water Consultants
DEQ-WQD Reviewing Engineer:	Susan Fields
Date of DEQ/WQD Review:	August 26, 1986

According to Chapter III of the Water Quality Rules and Regulations, Section 7b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the request information within that period, the entire incomplete application shall be returned."

In September, 1986 it was agreed between Wyoming Fuels and the Land and Water Quality Divisions that alternate sediment control measures would be implemented at this mine. Reservoir No. 1 would then be eliminated as a discharge point and there would be no need for as-built approval.

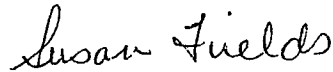
In May, 1987 alternate control measures were approved by the Land Quality Division. I understand the design is being revised prior to actual installation.

For our record keeping purposes please provide this office with written verification of your intent to pursue alternate sediment control. We can, at that time, withdraw your application and return your original submittal to you.

Mr. Dave Stout  
June 11, 1987  
Page Two

Please be reminded that you will still be required to monitor any discharge from the reservoir until the alternate measures are in place, your NPDES permit is inactivated and the pond is reclassified as a permanent stock pond with the State Engineer's office.

Sincerely,

A handwritten signature in cursive script that reads "Susan Fields".

Susan Fields  
Acting Northeast District Supervisor

SF:jj

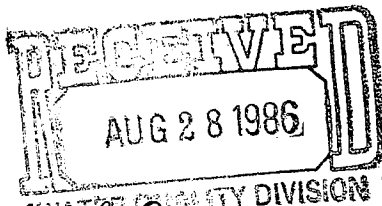
xc: Larry Robinson, Engineering Supervisor, Cheyenne  
Beth Goodnough, LQD, Sheridan



THE STATE



OF WYOMING



ED HERSCHLER  
GOVERNOR

## *Department of Environmental Quality*

### *Water Quality Division*

86-291

2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

August 26, 1986

Mr. Steven Magnuson  
Wyoming Fuel Company  
P.O. Box 15596  
Lakewood, Colorado 80215

Dear Mr. Magnuson:

I have completed my review of the information submitted on the Black Mountain Mine Reservoir No. 1 and offer the following comments.

The Water Quality Division requested design information on this reservoir in order to issue an As Built Approval, as the appropriate Permit to Construct was never obtained when the facility was originally constructed. In order for the application procedure to be complete, more information must be provided. The enclosed application form must be completed and submitted. Please note that the type of application is As Built Approval. I also need the design calculations used to determine the sizing requirements for the reservoir. These should include all basin characteristics and hydrologic assumptions used in design. The sediment accumulation calculations are also needed. This information was previously requested in a letter from me to Dave Stout on January 7, 1986.

The recent survey of the existing reservoir shows that the capacity is less than that required to contain the design volume of 12.74 acre-feet. It is not stated what frequency storm was used for design. Assuming the design was based on controlling the 10-year, 24-hour storm, the reservoir is undersized for the design standards in Chapter X of the Water Quality Rules and Regulations. Chapter X does state, however, that "a lesser design event may be approved based on terrain, climate, other site-specific conditions and on a demonstration by the applicant that the effluent limitations will be met". It has been demonstrated through past discharge monitoring that this reservoir cannot adequately treat runoff from a lesser event. Therefore, we must require that the reservoir comply with the design requirement to control runoff and sediment from a 10-year, 24-hour storm.

Mr. Steven Magnuson  
August 26, 1986  
Page Two

Your proposal to reduce the sediment loading by placement of straw bale check dams will not reduce the actual storm water runoff volume reaching the reservoir. Therefore, the reservoir will most likely continue to discharge during spring runoff. The bales may reduce the loading into the reservoir, but I feel strongly that the exceedences of total suspended solids seen in the past is a result more from turbulence caused by wave action in the reservoir than from the inflow loading. Therefore, the placement of bales is not an acceptable solution.


Two acceptable alternatives come to mind. The first is to raise the existing embankment to increase capacity enough to contain the 10-year, 24-hour storm. The second is to construct an additional reservoir at the outfall of the disturbed/reclaimed area to contain the runoff from that area only. This alternative would also require a Permit to Construct from this office. Your NPDES permit could be amended to move point 001 to the new reservoir outlet, or monitoring could still be done from the existing outfall. If the point is moved, the existing reservoir will need to either be abandoned or State Engineer approval obtained to convert it to a permanent stock pond. It seems likely that effluent limits will more easily be met by monitoring the smaller reservoir outfall because of the wave problems previously noted for the existing facility.

I have discussed these alternatives with the Land Quality Division and they have agreed that they are reasonable solutions, and will not conflict with LQD regulations.

Please be reminded that Wyoming Fuel Company is in violation of the Water Quality Rules and Regulations for having constructed this facility without a Permit to Construct. Our intent is to get the facility in compliance with our regulations and to provide assurance that the NPDES limits will be met. Enforcement action will be pursued if the permitting process is not acted on in an expedient manner.

Please feel free to call if you wish to discuss this review. I look forward to your resubmittal.

Sincerely,



Susan Fields  
Environmental Engineer

SF:ls

Enclosure

xc: Bud Preston, LQD, Sheridan  
Larry Robinson  
John Wagner

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re

PERMIT TO CONSTRUCT

☒ New

Permit No. 86-292

☐ Renewal

☐ Modified

Dixon 1986 Water Line Replacement  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Dixon

P O Box 38

Dixon, WY 82323

to construct, install, or modify a municipal water distribution system facility according to the procedures and conditions of the application No. 86-292. The facility is located in SE 1/4, S5, SW 1/4, S4, T12N, R90W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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Permit No. 86-293RR

Modified

Wilson-Washakie Pressure Reduction Station  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Worland  
Board of Public Utilities  
P.O. Box 816

Worland, WY 82401

to construct, install, or modify a 12" pressure reduction station with

504 ft. of 16" and 600 ft. of 12" connecting mains

facility according to the procedures and conditions of the

application No. 86-293RR . The facility is located in

NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , Sec. 31, T47N, R92W

\_\_\_\_\_ in the County of Washakie ,

in the State of Wyoming. This permit shall be effective for a period of two (2)

years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

norma

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Wilson-Washakie Pressure Reducing Station

ENGINEER: Robert Shelton, City Engineer  
P.O. Box 226  
Worland, WY 82401

OWNER: Worland Board of Public Utilities  
P.O. Box 816  
Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 86-293R

REVIEWING ENGINEER: Jeff Hermansky

DATE OF REVIEW: September 24, 1986

ACTION: Not authorized.

COMMENTS:

This office has completed a review of your response to my September 9, 1986 review letter. The following questions and comments still need to be addressed before a permit to construct can be issued:

1. Although I expect that Black and Veatch and you have performed a satisfactory analysis and design for the improvements to the Worland water distribution system, it is our responsibility as a regulatory agency to insure a design meets standards. The information you sent in response to question number 2 of my review letter offers little to address my questions. Therefore, I repeat the comment:

The plans, specifications and supporting information that was submitted with your application does not provide sufficient information for this office to evaluate or even see how the proposed modification integrates in the Worland water distribution system. We haven't any information on the City's pressure zones, demand or supply characteristics of the system. Furthermore, we did not receive a copy of a portion of the Black and Veatch distribution analysis which set the sizing of the mains. Please supply sufficient information for us to complete an evaluation.

2. I am not familiar with PVC CSA B137.3-M1981 pipe. This office does permit ASTM D2241 PVC pipe but derates the pressure class in accordance with the formula in the enclosed memo.

3. When you address the demand characteristics of the distribution system, please show that the pressure reducing valves are properly sized.

Review of Plans & Specs.

Ref. No.86-293R

Page Two

Addenda #2 states that the bids for this project are to be opened on September 16, 1986. This date has passed as of the time of this review.

I would once again like to notify you that constructing any water or sewer project that requires a permit to construct from the Water Quality Division without first securing a permit, is a violation of the regulations.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. If you have any questions as to what information we want, please contact either Steve Gerber or me. I would hope that there is no delay in the project due to an inability for us to communicate.

JH/jw

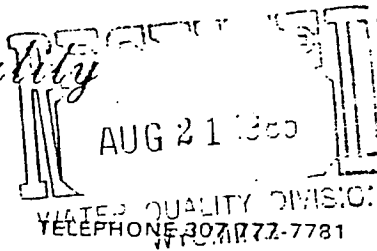


To: Bob Shelton

To: Steve  
from: TB NormanED HERSCHLER  
GOVERNOR

# Department of Environmental Quality

## Water Quality Division



HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TO: Consulting Engineers and other Interested Parties

FROM: William L. Garland, P.E.  
Administrator

SUBJECT: 4-12 inch PVC 1120 Pressure Pipe for Water (1254-A or 1254-B Material)

DATE: November 17, 1978

There has been much ado and many questions asked about PVC water pipe although DEQ has put out two policy statements (20 Apr 76, and 6 Mar 78) relative to the topic. Both of the statements allow any type or manufacturer of PVC pipe as long as it meets ALL AWWA Requirements: the "all" including 'each length of pipe be subjected to a 5-second Quick Burst test of 4 times the pressure class rating.' Only AWWA pipe meets this requirement.

The policy of this office is PVC 1120 pressure pipe can be used for water distribution lines if it meets the criteria of 2.5 Factor of Safety and has a surge pressure velocity allowance of not less than 2 ft/sec.

To put the PVC pipe question to bed once and for all the following policy is stated:

1. All water distribution systems will use as a minimum 100 psi classed pipe (CL 100) with class being determined in 2 below. (See table 1).
2. All PVC pipe other than AWWA C-900 and so marked will be classed using the following formula:

$$P_c = \left[ \frac{2t(HDB)}{(D_o - t)F} - \frac{4660V}{(1 + \frac{K}{E} \frac{D_o}{t})^2 \cdot 2.31 g} \right] = \left[ \frac{3200}{(DR-1)} - \frac{62.65V}{(.735DR - .47)} \right]$$

where

 $P_c$  = Pressure class, psi $t$  = minimum wall thickness, in $D_o$  = Average outside diameter, in

HDB = Hydrostatic Design Base, psi (4,000 under 23°C)

 $F$  = Factor of Safety (2.5) $V$  = Surge Velocity change, ft/sec (2 minimum)

for 6" 125 class PVC  
SDR=32.5  
Rated pressure is  
75.7 psi  
class 160 SDR=26  
 $P_c = 98.9$  psi ok  
nothing less  
class 160

E = Modulus of Elasticity, psi (400,000 for 1120 PVC)  
 K = Bulk Modulus, psi (294,000 for water)  
 $D_i$  = Average inside diameter, in ( $D_o - 2t$ )  
 $g$  = Gravitational constant, ft/sec<sup>2</sup> (32.2)  
 DR = Dimension Ratio ( $D_o/t$ )

Ref AWWA std C900-75

3. Design analyses, calculations and assumptions will accompany the plans and specifications when applying for a permit to construct. Designers should take into consideration the differences between AWWA C-900 and ASTM 2241 1120 PVC pipe and make the required allowances for the differences in flow velocities and/or flow volumes.
4. Designers must be extra conservative when sizing and pressure rating water lines. It should be remembered the cost of laying larger or higher pressure class pipe must be based on more than the difference in the cost of the pipe. The range of pressures encountered within a system with respect to reservoirs, tanks and elevation differences must be closely evaluated.
5. All Class 100 - 125 pipe (as classified in 2 above) shall use banded saddle type taps.
6. A minimum of 2 ft/sec surge velocity will be used on all lines. Transmission lines and distribution lines providing fire flow will usually require a greater surge velocity.
7. For water temperatures of 23° C (73.4°F) or less the standard formulae will apply. For water temperatures over 23°C, temperature reductions as specified in table 2 will be used.

TABLE 2

Temperature Coefficients

Maximum Service Temperature		Percentage of Allowable Design Stress or Pressure-Class Rating at 73.4F (23C)
F	C	
73	23	100
80	27	88
90	32	75
100	38	62
110	43	50
120	49	40
130	54	30
140	60	22

(Ref. Table A.1, Appendix A, C900-75)

Changes to DEQ approved Plans and Specifications must be resubmitted for review and approval prior to the initiation of construction.

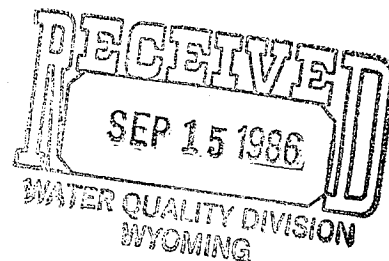
Questions and/or clarifications to the above should be directed to Tom Hanna, 307-777-7781.



hoyma  
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144



PROJECT: Wilson-Washakie Pressure Reducing Station

ENGINEER: Robert Shelton, City Engineer  
P.O. Box 226  
Worland, WY 82401

OWNER: Worland Board of Public Utilities  
P.O. Box 816  
Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 86-293

REVIEWING ENGINEER: Jeff Hermansky

DATE OF REVIEW: September 9, 1986

ACTION: Not authorized.

COMMENTS:

This office has completed a review of the proposed pressure reducing station and connecting water main. The following questions and comments need to be addressed before a permit to construct can be issued:

1. For your information, Ed Baruth is no longer an employee of the Department of Environmental Quality. Steve Gerber is the district supervisor.

2. The plans, specifications and supporting information that was submitted with your application does not provide sufficient information for this office to evaluate or even see how the proposed modification integrates into the Worland water distribution system. We have no information on the City's pressure zones, demand or supply characteristics of the system. Furthermore, we did not receive a copy of a portion of the Black and Veatch distribution analysis which set the sizing of the mains. Please supply sufficient information for us to complete an evaluation.

3. The water main pipe material specified in the Special Provisions page M-1 does not meet the regulations. See Section 14(a)(i)(A) for approved PVC water pipe.

4. Do the polyethylene and polybutyl water service pipes listed on page M-1 meet AWWA C901 and C902?

5. Cla-Val company lists minimum, normal, and maximum flow rates for 90-01 series pressure reducing valves in a capacity table. The minimum flow rate for a 6" valve is 5 gpm and 400 gpm for a 12" valve. Section 101 of the specifications show a minimum flow rate of 45 gpm for a 6" valve and 175 gpm for a 12" valve. Do you have any insight on why we have substantially different numbers for minimum recommended flow? What are the minimum and maximum flows projected for the pressure reducing station?

Review of Plans & Specs

Ref. No. 86-293

Page Two

Cla-Val states that the valve is almost on the valve seat when operating at or near the minimum flow rate. If prolonged periods of operation are expected at or near the minimum recommended flow rate, Cla-Val recommends that stainless steel trim should be specified.

6. Where is the discharge line from the pressure reducing station sump pump intended to terminate?

The bid notice that is enclosed with the project documents states that the bids for this project are to be opened on September 2, 1986. This date has passed as of the time of this review.

I would once again like to notify you that constructing any water or sewer project that requires a permit to construct from the Water Quality Division without first securing a permit, is a violation of the regulations.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

JH/jw

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PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 86-294  
SEE CONDITIONS ON BACK

City of Riverton Sludge Land Application  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Riverton

Box 1700

Riverton, WY 82501

to construct, install, or modify a sewage sludge land application facility according to the procedures and conditions of the application No. 86-294. The facility is located in Section 36, T1N, R4E in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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PERMIT TO CONSTRUCT

☒ New

Permit No. 86-295R

☐ Renewal

☐ Modified

Casper Bowl Snack Bar and Comfort Station  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Jackson Hole Ski Corporation

P.O. Box 290

Teton Village, WY 83025

to construct, install, or modify a 4" PVC sewage line with cleanouts and manholes  
preceded by septic tanks

                                 facility according to the procedures and conditions of the  
application No. 86-295R. The facility is located in                                 

SW $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 13, T42N, R117W

                                 in the County of Teton,

in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

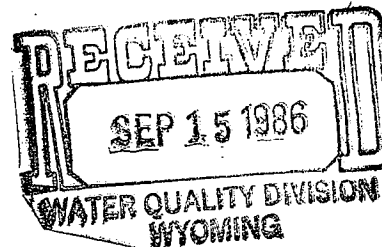
Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

MEMORANDUM

Norma

TO: Plans, 86-295  
FROM: Jeff Hermansky *Jeff*  
SUBJECT: Phone Review of Casper Bowl Restaurant Sewer  
DATED: September 5, 1986



On September 5, 1986 I conducted a phone review of the sewer project with the engineer, Mickey Yamashiro. I made the following comments:

1. The DEQ is excepting deviations from a number of requirements listed in Chapter XI. The deviations are as follows: there are some cleanouts rather than manholes, there are a couple of slight vertical curves in the line, 4 inch sewer pipe is used rather than 6 inch, the distance between manholes is greater than 400 in some cases, and there are no anchors on the sewer line in areas where the slope is greater than 20 ft/100.

The basis for granting variations is that the line is essentially a service connection. The line is only serving one building. Furthermore, septic tanks are being provided at the building to remove solids prior to the sewer line. Without solids to handle, the likelihood of problems in the line is very remote.

2. There were no specifications provided with the application nor was there a reference to the Wyoming Public Works Standards and Specifications on the plans.

3. Details of manholes, cleanouts, and trenches need to be provided.

4. Equipment schedule is required for the water booster pump station so that we can ensure the community system is adequately protected from excessive pressure that could result from the restaurant service connection.

JH/jw

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PERMIT TO CONSTRUCT

☒ New

Permit No. 86-296R

☐ Renewal

☐ Modified

Leucite Hills Wastewater Disposal Facility  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Prospect Point Coal Co.

P.O. Box 8

Point of Rocks, WY 82942

to construct, install, or modify a replacement wastewater disposal system

consisting of an existing septic tank, new dosing tank and leachfield

facility according to the procedures and conditions of the  
application No. 86-296R. The facility is located in

NW $\frac{1}{4}$ , Sec. 11, T20N, R100W

in the County of Sweetwater,  
in the State of Wyoming. This permit shall be effective for a period of two (2)  
years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

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PERMIT TO CONSTRUCT

☐ New

Permit No. 86-297R

☐ Renewal

☒ Modified

Cody - Stolt Street Water Line

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Cody

1338 Rumsey Avenue

Cody, WY 82414

to construct, install, or modify a 527 feet of 6 inch water main

                                 facility according to the procedures and conditions of the application No. 86-297R. The facility is located in                                 

Tract 77, T52N, R102W

                                 in the County of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

REVIEW OF PLANS AND SPECIFICATIONS

Norma

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 LINCOLN

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Cody - Stolt Street Water Line

ENGINEER:

OWNER: City of Cody  
1338 Rumsey  
Cody, WY 82414



WATER QUALITY DIVISION REFERENCE NUMBER: 86-297

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: September 9, 1986

ACTION: Not authorized.

REMARKS:

A submittal for the above referenced project has been received in this office. A complete review has not been made since the submittal is lacking the stamp of a registered engineer and no plans and specifications have been submitted. Once plans and specifications stamped by a registered engineer have been submitted, a complete review will be made.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

SG/jw

cc: Plans (3)

File (2)



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PERMIT TO CONSTRUCT

Permit No. 86-298

Ref.No. 83-652

☐ New

☒ Renewal

☐ Modified

Pioneer Water & Sewer District-Phase IV  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Pioneer Water & Sewer District

P O Box 1588

Mills, WY 82644

to construct, install, or modify a municipal water distribution system facility according to the procedures and conditions of the application No. 83-652. The facility is located in Section 8, T33N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

## Department of Environmental Quality

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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August 14, 1987

Burggraf Construction  
P.O. Box 1365  
Jackson, WY 83001

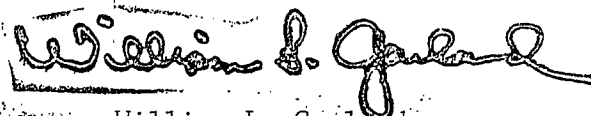
RE: Hanson Gravel Pit Sedimentation Pond, Appl. No. 86-299

Dear Sir:

Your application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000 per day of violation. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules and Regulations, must be followed.

Sincerely,



William L. Garland  
Administrator  
Water Quality Division

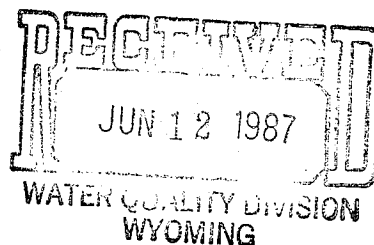
WLG/SG/jw  
cc: Norma Coulson, DEQ/WQD, Cheyenne  
Bob Ablondi, Jorgensen Engineering



## Department of Environmental Quality

Air Quality Division  
(307) 332-3144Land Quality Division  
(307) 332-3047Solid Waste Management Program  
(307) 332-3144Water Quality Division  
(307) 332-3144

June 10, 1987

Jorgensen Engineering  
P.O. Box 1142  
Jackson, WY 83001

Dear Mr. Ablondi:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for this proposed project is:

Facility Name: Hansen Gravel Pit Sedimentation Pond  
DEQ/WQD Reference Number: 86-299  
Engineering Consultant: Jorgensen Engineering  
DEQ/WQD Review Engineer: Steven P. Gerber  
Date of DEQ/WQD Review: 9-11-86

According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of this project and return this form to our office.

- ☐ The application will not be resubmitted as the proposed project has been cancelled.
- ☐ The application will be resubmitted within thirty (30) days.
- ☐ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.
- ☐ Other Remarks: \_\_\_\_\_



*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 15, 1986

Jorgensen Engineering  
P.O. Box 1142  
Jackson, WY 83001

Dear Mr. Ablondi:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for this proposed project is:

Facility Name: Hansen Gravel Pit Sedimentation Pond  
DEQ/WQD Reference Number: 86-299  
Engineering Consultant: Jorgensen Engineering  
DEQ/WQD Review Engineer: Steven P Gerber  
Date of DEQ/WQD Review: 9-11-86

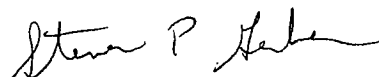
According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of this project and return this form to our office.

- \_\_\_\_\_ The application will not be resubmitted as the proposed project has been cancelled.
- \_\_\_\_\_ The application will be resubmitted within thirty (30) days.
- \_\_\_\_\_ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.
- \_\_\_\_\_ Other Remarks: \_\_\_\_\_

You are reminded that the construction, installation, or modification of any sewage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes, and is punishable with a fine not to exceed \$10,000 for each day of violation. Unless the Water Quality Division review engineer receives information concerning the status of this project within fifteen (15) days of the receipt of this letter, follow-up action will be taken.

Sincerely,

A handwritten signature in dark ink, appearing to read "Steven P. Gerber", is written above the typed name.

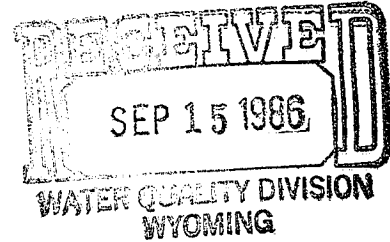
Steven P. Gerber, P.E.  
Northwest District Supervisor

SG/jw

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144



PROJECT: Hansen Gravel Pit Sedimentation Pond

ENGINEER: Jorgensen Engineering  
P.O. Box 1142  
Jackson, WY 83001

OWNER: Burggraf Construction Co.  
P.O. Box 1365  
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 86-299

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: September 11, 1986

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. The sedimentation pond is to be drained as soon as the effluent meets the discharge parameters. Identify the means that will be used for draining the pond.
2. Show how runoff is to be directed into the sedimentation pond.
3. A freeboard of  $\frac{1}{2}$  foot is required.
4. Inner dike slopes are to be sloped between one vertical to four horizontal and one vertical to three horizontal.

Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

SG/jw  
cc: Plans (3)  
File (2)